

King Fahd University of Petroleum & Minerals Electrical Engineering Department

(072)

Sec#3	Name:	ID#	EE 205 QUIZ #1
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A balanced Δ connected load has an impedance of $360 + j105\Omega/\Phi$. The load is fed through a line having an impedance of $0.1 + j1\Omega/\Phi$. The phase voltage at the terminals of load is 33 KV . The phase sequence is positive. Use V_{AB} as the reference.

1. Calculate the three phase currents of the load.
2. Calculate the three line currents.
3. Calculate the three line voltages at the sending end of the line.
4. Calculate the total average power absorbed by the load